

FACTSHEET

HSWA-ONLY PERMIT RNEWAL

FORMER ALCATEL-LUCENT USA INC. FACILITY
2912 WAKE FOREST ROAD
RALEIGH, WAKE COUNTY, NORTH CAROLINA
EPA IDENTIFICATION NUMBER: NCD 003 185 238

A Draft Renewal Permit has been prepared for the former Alcatel-Lucent USA Inc. Facility to treat remnant groundwater contamination under the Federal Resource Conservation and Recovery Act (RCRA). North Carolina has been authorized by the United States Environmental Protection Agency to administer RCRA including the Hazardous and Solid Waste Amendments (HSWA) of 1984. The State has determined that the former Alcatel-Lucent USA Inc. Facility's proposed activities as identified in the Permit Renewal Application satisfy the full intent of the North Carolina Hazardous Waste Management Rules and Solid Waste Management Act as amended. When finalized this draft permit issued by the State of North Carolina will constitute a complete permit under the Federal Resource Conservation and Recovery Act.

Background

The former Alcatel-Lucent USA Inc. Facility (ALU) is an existing Resource Conservation Recovery Act (RCRA) facility located on 2912 Wake Forest Road, in Raleigh, Wake County, North Carolina. The Facility previously consisted of approximately 24 acres and was historically occupied by a 234,000 square foot building, storage and maintenance buildings, parking areas, and landscaped areas. Structures were demolished in 2012.

The Facility utilized electroplating operations to manufacture telecommunication transmission equipment from 1958 until 1990. From 1991 to 2003, the Facility was used to conduct research and development. I.T.B Holdings LLC (ITB) purchased the property in July 2003. On September 29, 2016, ITB and Regency Centers Acquisition, LLC formed Midtown East Regency-ITB, LLC, a joint venture. Midtown East Regency-ITB, LLC is redeveloping the site for commercial purposes.

Potential impacts to soil and groundwater as a result of the electroplating operations were voluntarily assessed by the Facility beginning in 1989. Assessment documented releases of volatile organic compounds, including perchloroethylene (PCE) and 1,1,1-trichloroethane (TCA). Concentrations of TCA are currently less than the North Carolina State Groundwater Standard. However, daughter products of this compound are present at elevated concentrations in the groundwater, including 1,4-dioxane; 1,1-dichloroethene; 1,1-dichloroethane; PCE; trichloroethylene; and vinyl chloride. The PCE groundwater plume covers the largest areal extent, extending from the subject property south to Six Forks Road in both the shallow and bedrock aquifer units.

Contaminated groundwater was addressed using a pump-and-treat remediation system beginning in 1997. The pump-and-treat remediation system was installed to reduce the size of the contaminant plume and to create a hydraulic barrier to inhibit the downgradient migration of impacted groundwater. Additional remedial strategies to assist and augment the groundwater pump-and-treat system were evaluated. In-situ chemical oxidation (ISCO) was performed in May 2007 to treat groundwater in the source area. Additionally, 345 tons of impacted soil were excavated in September 2009 to limit leaching which might further degrade the groundwater.

Potential treatment alternatives were further evaluated in October 2010. It was recommended that ISCO be implemented to address contamination in the shallow groundwater aquifer in the source area. Specifically, it was recommended that persulfate catalyzed by sodium hydroxide be blended into the upper aquifer from approximately 13 feet below ground surface (bgs) to a depth of approximately 22 feet bgs over an area of approximately 8,000 square feet. Source area treatment is combined with long-term monitored natural attenuation (MNA). MNA monitors groundwater quality to evaluate the overall effectiveness of the source reduction. A trigger for additional remedial actions may occur if the contaminant plume does not reach steady state conditions or increases in size.

The Renewal Permit addresses implementation of corrective action to treat remnant groundwater contamination. The Permittee must comply with all terms and conditions of the HSWA/Corrective Action Permit.

Public Hearing

A public hearing will be held at 1:00 pm on Monday, July 30, 2018, at the Cameron Village Regional Library located at 1930 Clark Avenue in Raleigh, North Carolina. All attendees will have the opportunity to present five-minute oral statements regarding the draft renewal permit and/or to submit written comments and data at the public hearing. You may also submit written comments at any time during the forty-five-day public comment period, which begins on June 29, 2018, and ends on August 13, 2018. Comments should be sent to the following address:

Julie S. Woosley, Chief
North Carolina Division of Waste Management
Hazardous Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

All data and information submitted by the applicant is part of the administrative record and available for your review. Copies of the Hazardous Waste Management Permit Renewal Application, draft permit, and a factsheet are available for your review. This information can be reviewed either in person in the Hazardous Waste File Room or online at the web address: <https://deg.nc.gov/about/divisions/waste-management/waste-management-rules-data/e-documents>. Public notices related to this decision may be found at <http://deg.nc.gov/news/events/public-notices-hearings>.

The Hazardous Waste File Room is located at 217 West Jones Street in Raleigh, North Carolina. The file room is open Monday through Friday during office hours (9:00 a.m. to 4:00 p.m.). Call (919) 707-8272 for an appointment.

The administrative record can also be viewed at any time using the above web address. Electronic files can be searched using the ID Number: *003185238*. Files can be filtered by selecting preferred document group and document type.

All comments received during the public comment period or at the hearing will be considered in the final permit decision. Comments received after the public comment period ends will not be considered. When a final permit decision is made to either issue, deny, or modify the permit, notice will be given to the applicant and to each person who has submitted written comments or requested notice of the final decision.

Anyone desiring additional information may contact Mary Siedlecki at (919) 707-8208 or at mary.siedlecki@ncdenr.gov or at the address listed above.